

IN THE CLAIMS

1. (original) A method for producing a fused polypeptide comprising the steps of:

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- (a) immobilizing a first polypeptide or portion thereof fused to a first intein fragment on a solid support;
 - (b) immobilizing a second polypeptide or portion thereof fused to a second intein fragment on a solid support wherein said second intein fragment is complementary to said first intein fragment; and
 - (c) reacting said first and second immobilized polypeptides under conditions which favor transplicing of said first and second polypeptide to produce a fused polypeptide comprising said first and second polypeptides.

2. (original) The method of claim 1, further comprising the step of eluting the fused polypeptide from the solid support.

3. (original) The method of claim 1, wherein said first and second polypeptides are selected from the group consisting of peptides, proteins and enzymes.

4. (original) The method of claim 1, wherein said solid support is selected from the group consisting of affinity based supports, chips, plates, biochip supports, glass wafers and microtiter plates.